

Claims

1. A container for holding a product, preferably a product in pieces, in particular an edible product, such as sweets, chocolates, comfits and the like; the container consisting of a retaining body (11) and comprising side product retaining means and at least one outlet opening (25) through which the product comes out; the container being characterised in that the container body is a tubular container body with a polygonal base; and in that in practice there are container closing means, consisting of a lid (26) for closing the product outlet opening, the lid extending from the container body and being connected to it.
2. The container according to the preamble to claim 1, characterised in that the container body has a polygonal base.
3. The container according to either of the foregoing claims, characterised in that the container body has a hexagonal base.
4. The container according to any of the foregoing claims, characterised in that the container body has a polygonal base with regular sides.
5. The container according to any of the foregoing claims, characterised in that the container body comprises a front wall (18).
6. The container according to any of the foregoing claims, characterised in that the container body comprises a rear wall (12).
7. The container according to any of the foregoing claims, characterised in that the container body comprises a pair of front side walls (16, 20).

8. The container according to any of the foregoing claims, characterised in that the front side walls each extend from the side of the front wall (18).

5 9. The container according to any of the foregoing claims, characterised in that the container body comprises a pair of rear side walls (14, 22).

10 10. The container according to any of the foregoing claims, characterised in that the rear side walls each extend from the side of the rear wall (12).

15 11. The container according to any of the foregoing claims, characterised in that the rear side walls are joined to the front side walls (16, 20).

20 12. The container according to any of the foregoing claims, characterised in that at least one outer walls forms an obtuse angle, that is to say, an angle above 90° with an adjacent outer wall.

25 13. The container according to any of the foregoing claims, characterised in that it comprises a base wall (24) for retaining the product in the container.

30 14. The container according to any of the foregoing claims from 2 to 13 or according to the preamble to claim 1, characterised in that there are means (26) for closing the product outlet opening of the container.

35 15. The container according to claim 14, characterised in that there are means for closing the container consisting of a lid (26) for closing the product outlet opening, suitably connected to the container body (11).

16. The container according to claim 14 or 15, characterised in that the means for closing the container comprise a closing wall (28) which extends transversally.

5 17. The container according to claim 16, characterised in that the closing wall (28) of the closing means is flat.

10 18. The container according to claim 16 or 17, characterised in that the lid closing wall (28) extends from the rear wall of the container body.

15 19. The container according to any of the foregoing from claims 14 to 18, characterised in that the closing means comprise a longitudinal wall (30).

20 20. The container according to claim 19, characterised in that the longitudinal wall of the closing means is a front wall (30).

25 21. The container according to any of the foregoing from claims 14 to 20, characterised in that the closing means comprise a first and a second side outer wall (32, 34).

30 22. The container according to claim 21, characterised in that the outer walls are front side walls (32, 34).

35 23. The container according to any of the foregoing claims from 14 to 22, characterised in that at least one outer wall of the closing means forms an obtuse angle, that is to say, an angle above 90° with an adjacent outer wall.

24. The container according to any of the foregoing claims or according to the preamble to claim 1, characterised in that there are connecting means between the closing means (26) and the container body (11).

25. The container according to claim 24, characterised in that the connecting means comprise a line for connection and rotation

(1228, 2117) relative to a corresponding container body outer wall.

5 26. The container according to any of the foregoing claims or according to the preamble to claim 1, characterised in that there are retaining means (26) for holding the lid closed.

10 27. The container according to claim 26, characterised in that the retaining means for holding the lid closed comprise engagement means located on the closing means or lid (26).

15 28. The container according to claim 27, characterised in that the engagement means on the closing means or lid (26) comprise at least one engagement tooth, in particular a first and a second engagement tooth (35, 37).

20 29. The container according to claim 28, characterised in that there is a first and a second tooth (35, 37), each extending from a corresponding side wall of the closing means or lid.

30 30. The container according to claim 28 or 29, characterised in that each retaining tooth (35, 37) is at the front outer wall (30) of the closing means or lid.

25 31. The container according to claim 29 or 30, characterised in that the engagement tooth (35, 37) extends from a front side wall (32, 34) of the closing means or lid.

30 32. The container according to any of the foregoing claims from 28 to 31, characterised in that each engagement tooth (35, 37) is on an inner face of the front wall (30) of the closing means or lid.

35 33. The container according to claim 28, characterised in that the retaining teeth (335, 337) are at the corresponding side wall of the closing means or lid.

34. The container according to claim 33, characterised in that the retaining teeth (335, 337) are at the corresponding front side wall (32, 34) of the closing means or lid.

5 35. The container according to claim 33 or 34, characterised in that there is a first and a second tooth (335, 337), each extending from the front wall (30) of the closing means or lid.

10 36. The container according to any of the foregoing from claims 27 to 35, characterised in that the retaining means on the closing means operate in conjunction with engagement means (39) on the container body (11).

15 37. The container according to claim 36, characterised in that the engagement means (39) on the container body comprise an engagement tooth or tab (18).

20 38. The container according to claim 36 or 37, characterised in that the retaining means (39) on the container body are at the outer face of the corresponding outer wall.

25 39. The container according to any of the foregoing claims from 36 to 38, characterised in that the retaining means (39) on the container body are at the front wall (18) of the container body.

40. The container according to any of the foregoing claims from 36 to 39, characterised in that the retaining means (339a, 339b) on the container body are at the side wall of the container body.

30 41. The container according to claim 40, characterised in that the retaining means (339a, 339b) on the container body are at the front side wall (16, 20) of the container body.

35 42. The container according to any of the foregoing claims from 36 to 41, characterised in that the retaining means (39) on the container body extend from a corresponding upper edge (1839) of the container body.

43. The container according to any of the foregoing claims from 36 to 42, characterised in that the closing retaining means comprise engagement means on the lid (26) comprising a tab (36) for insertion in a corresponding slot (38) in the container body.

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44. The container according to any of the foregoing claims or according to the preamble to claim 1, characterised in that there are stiffening means for the container body.

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45. The container according to claim 44, characterised in that there are stiffening means for the container body in the open condition.

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46. The container according to claim 44 or 45, characterised in that the stiffening means are located at the product outlet opening (25).

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47. The container according to any of the foregoing claims from 44 to 46, characterised in that the stiffening means are located at one end of the container body.

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48. The container according to any of the foregoing claims from 44 to 47, characterised in that the stiffening means comprise at least one portion (17, 117, 217) extending transversally to the container body.

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49. The container according to any of the foregoing claims or according to the preamble to claim 1, characterised in that there is a single transversal panel (17, 117, 217) extending from one end of an outer wall and forming the stiffening means.

50. The container according to claim 49, characterised in that the stiffening panel (17) extends from the front outer wall (18).

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51. The container according to claim 49, characterised in that the stiffening panel (117, 217) extends from the rear outer wall (121) of the container body.

52. The container according to any of the foregoing claims from 44 to 51, characterised in that the stiffening means (17, 117, 217) are connected to at least one of the other outer walls of the container.

53. The container according to any of the foregoing claims from 44 to 52, characterised in that the stiffening means (17, 117) are connected to the front side walls (16, 20) of the container body.

54. The container according to any of the foregoing claims from 44 to 53, characterised in that the stiffening means (17, 117, 217) are connected to the rear side walls (14, 22) of the container body.

55. The container according to any of the foregoing claims from 44 to 54, characterised in that the transversal stiffening wall (217) connects the rear wall and the front and rear side walls of the container body.

56. The container according to any of the foregoing claims from 44 to 54, characterised in that the transversal stiffening wall (117) connects the rear wall and the front and rear side walls of the container body.

57. The container according to any of the foregoing claims from 44 to 56, characterised in that the transversal stiffening wall (117) is only connected to the rear part of the front side walls of the container body.

58. The container according to any of the foregoing claims from 44 to 57, characterised in that the transversal stiffening wall (17, 117, 217) extends transversally, lying substantially in the perpendicular plane formed by the upper edge (1839) of the corresponding outer wall (18), from which the engagement means (39, 139) extend on the container body.

59. The container according to any of the foregoing claims from 44 to 58, characterised in that the stiffening wall (17, 117, 217) is connected to the side walls of the container body by corresponding tabs extending from the side walls (14, 16, 20, 22, 43, 51, 147, 149).

60. The container according to claim 59, characterised in that the connecting tabs extend from the rear side walls (14, 22).

61. The container according to claim 59 or 60, characterised in that the connecting tabs extend from the front side walls (16, 20) to which the transversal wall is fixed.

62. The container according to any of the foregoing claims from 59 to 61, characterised in that the stiffening wall is connected to the top of the connecting tabs.

63. The container according to any of the foregoing claims or according to the preamble to claim 1, characterised in that there are means for covering the opening in the container body.

64. The container according to claim 63, characterised in that the means for covering the opening extend from the side walls of the container body.

65. The container according to claim 63 or 64, characterised in that the means for covering the opening extend from the rear side walls of the container body.

66. The container according to any of the foregoing claims from 63 to 65, characterised in that the means for covering the opening consist of the transversal panel (17, 117, 217).

67. The container according to any of the foregoing claims or according to the preamble to claim 1, characterised in that there are opening means (25, 125, 225) with predetermined size.

68. The container according to claim 67, characterised in that the predetermined opening (25, 125, 225) is suitable for allowing the passage of a predetermined number of pieces at a time.

5 69. The container according to claim 67 or 68, characterised in that the product outlet opening (25) is made in the transversal stiffening and/or covering wall.

10 70. The container according to any of the foregoing claims from 67 to 69, characterised in that the product outlet opening (25, 125, 225) has a predetermined shape and dimensions suitable for the passage of only one piece of product held in the container at a time.

15 71. The container according to any of the foregoing claims from 67 to 70, characterised in that the product outlet opening (25, 125, 225) extends from the front side (18) of the container body.

20 72. The container according to any of the foregoing claims from 67 to 71, characterised in that the product outlet opening (25, 125, 225) extends from the upper edge (18, 39) of the front wall of the container body.

25 73. The container according to claim 67, characterised in that the product outlet opening (375) opens on the front side (18) of the container body.

30 74. The container according to any of the foregoing claims from 67 to 73, characterised in that the transversal wall (17) for stiffening and/or covering is fixed to the front wall (18) of the container body at two container points (1817a, 1817b) or opposite side sections of the container body.

35 75. The container according to any of the foregoing claims from 44 to 74, characterised in that there are stiffening means for the container in the closed condition.

76. The container according to claim 75, characterised in that the stiffening means for the container body in the closed condition comprise the lid when engaged with the container body.

5 77. The container according to claim 75 or 76, characterised in that the closing lid comprises a rear portion (28a) of the lid fixed to the container body and a front portion (28b) joined to the fixed portion (28a) of the container body.

10 78. The container according to any of the foregoing claims from 59 to 77, characterised in that the connecting tabs (14, 16, 20, 22, 43, 51, 147, 149) extending from the outer walls are suitably shaped and/or positioned so that they do not interfere with the product coming out.

15 79. The container according to any of the foregoing claims from 44 to 78, characterised in that in the space in the stiffening walls forming the opening (25) there is an engagement and retaining tab (39) for a closing lid.

20 80. The container according to any of the foregoing claims or according to the preamble to claim 1, characterised in that at least a first and a second wall, adjacent to one another, are positioned and connected in such a way as to form a "V" shape
25 forming a lid guide for channelling the product.

81. The container according to any of the foregoing claims or according to the preamble to claim 1, characterised in that the container body has a wall (18) supporting the lid engagement means
30 (39, 139), which is connected at to at least one side wall, forming an angle other than 90° with said wall.

82. The container according to claim 81, characterised in that the container body has a wall (18) supporting the lid engagement means
35 (39, 139) (19, 139), which is connected at its longitudinal edges to corresponding side walls (16, 20) forming an obtuse angle, that is to say, an angle greater than 90° with it.

83. A pack consisting of a container according to any of the foregoing claims and an edible product in pieces, in particular in pieces which are disc-shaped.

5 84. Use of a container according to any of the foregoing claims from 1 to 83, to hold a product in pieces, in particular an edible product, especially consisting of pieces with a diameter or width substantially less than the internal diameter of the container body.

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85. Use of a container according to any of the foregoing claims from 1 to 83, to hold a product in pieces, in particular an edible product, especially consisting of pieces which are disc-shaped with a diameter (dp) greater than the width of the side wall of the container body.

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86. A blank for making a container consisting of a container body with an outlet opening through which the product contained in it comes out and a lid for closing the product outlet opening, the blank consisting of a flat sheet, preferably made of cardboard, comprising a plurality of panels (12, 14, 16, 18, 20, 22) forming the outer walls of the container body, separated from one another by transversal pre-creasing or fold lines (1214, 1416, 1618, 1820, 2022), the blank also comprising a panel (28) extending from a transversal end of a side panel (12) to form a lid (26) upper closing wall; the blank being characterised in that the panel forming the lid (26) upper wall has a polygonal profile, having a first and a second outer edge (2832, 2834) on the side opposite that from which the panel forming the lid outer wall (12) extends; and also characterised in that there is a first and a second outer panel forming lid side walls (32, 34), the side panels (32, 34) extending from the side edges (2832, 2834) of the lid upper panel, on the side opposite the one on which the upper panel (28) is connected to the panel forming the outer wall (12) of the container body.

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87. The blank according to claim 86, characterised in that the panel forming the lid upper closing wall (28) has a hexagonal profile.

5 88. The blank according to claim 87, characterised in that the panel forming the lid upper closing wall (28) has a hexagonal profile with regular sides.

10 89. The blank according to any of the foregoing claims from 86 to 88 or according to the preamble to claim 86, characterised in that it comprises another side panel (21, 121), which is glued to the rear panel (12) and which is used to join the rear panel (12) to the side panel (22) of the container body.

15 90. The blank according to any of the foregoing claims from 86 to 89 or according to the preamble to claim 86, characterised in that it comprises a panel (17, 117, 217) forming container body stiffening means which extends from a transversal end of an outer wall (18, 121) of the container body.

20 91. The blank according to any of the foregoing claims from 86 to 90 or according to the preamble to claim 86, characterised in that it comprises a panel forming a side or front longitudinal wall (30) of the lid, extending from the panel (28) forming the lid upper wall, through a pre-creasing or fold line (2830) on the side opposite that from which the panel (28) extends from the outer panel of the container body.

30 92. The blank according to any of the foregoing claims from 86 to 91 or according to the preamble to claim 86, characterised in that there is a first (35) and a second (37) panel forming a respective retaining tooth for holding the lid on the container body, the teeth each extending from a panel (32, 34) forming the lid front side walls, to which they are connected by fold or pre-creasing lines (3235, 3437).

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93. The blank according to any of the foregoing claims from 86 to 92 or according to the preamble to claim 86, characterised in that there is a tab (39) extending from an upper edge or pre-creasing line (1839) of the outer wall (18) of the container body.

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94. The blank according to any of the foregoing claims from 86 to 93 or according to the preamble to claim 86, characterised in that there are tabs (43, 47, 49, 51, 147, 149) extending, through pre-creasing or fold lines (1443, 1647, 2049, 2251), from rear and front side walls (14, 16, 20, 22), forming means for connecting the transversal stiffening wall (17, 117, 217) to the front side walls (16, 20) and to the rear side walls (14, 22) of the container body.

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95. The blank according to any of the foregoing claims from 86 to 94 or according to the preamble to claim 86, characterised in that the stiffening panel (17, 117, 217) has a shaped edge (25', 125', 225'), in particular arched, forming opening means with predetermined extension.